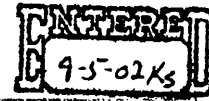


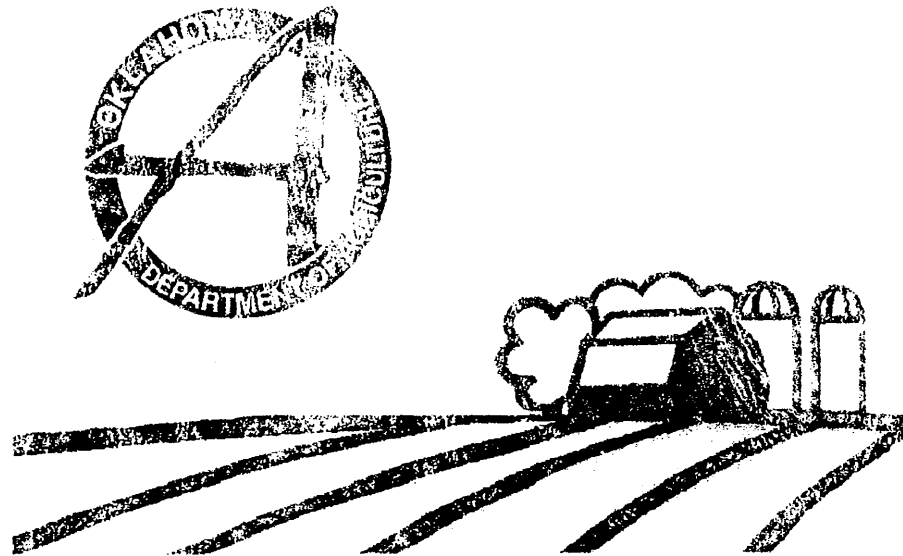
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SEP 03 2002

Water Quality
STATE DEPT. OF AGRICULTURE



**ANIMAL WASTE MANAGEMENT PLAN
CLYDE MASTERS
POULTRY PRODUCTION OPERATION
Sections 14 & 11, T17N, R25E
ADAIR COUNTY, OKLAHOMA**



**WATER QUALITY SERVICES DIVISION
OKLAHOMA DEPARTMENT OF AGRICULTURE
P.O. Box 528804, Oklahoma City, OK 73105**

OKDA0010135

Exhibit #1

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**ANIMAL WASTE MANAGEMENT PLAN
CLYDE MASTERS
POULTRY PRODUCTION OPERATION
ADAIR COUNTY, OKLAHOMA
Prepared August 2002**

A. INTRODUCTION

Plants remove from the soil 4 to 10 times as much nitrogen as phosphorus. Consequently, a significant build up of phosphorus in the soil can take place over a period of time. Much of the build up can be lost through runoff, which greatly reduces the quality of water downstream. Due to these water quality concerns, future land application of poultry litter will be based upon the phosphorus content in the soil and the amount of phosphorus in the chicken litter to be applied. The law requires that the Natural Resources Conservation Service recommendations for litter application rates be followed. NRCS recommends the application of a maximum of 200 lbs. of phosphorus per acre per year if the soil test shows a phosphorus index below 250. If the soil test phosphorus index is above 250 then rate applications are adjusted downward accordingly. Litter is not to be applied where the phosphorus index is above 400. When phosphorus and potassium levels are high, only nitrogen fertilizer (ex. ammonium nitrate) is needed for increased forage yields. About 50 lbs of nitrogen is needed to produce a ton of bermuda grass.

B. DESCRIPTION OF OPERATION

This waste management plan includes the production, handling, and distribution of waste and litter from three turkey houses. The brooder house is 40 feet wide and 400 feet long. All birds are housed here for the first few weeks before being moved to the other houses. Cake out from the brooder house is used as top dressing in the other two houses or is stored in a storage house for later use. The other two houses are each 40 feet wide and 500 feet long. They are all located in Section 14, T17N, R25E, in Adair County, Oklahoma. There are 48 acres in this property of which about 40 acres can receive litter when the phosphorus index is below 400.

On an average, there will be about 5 batches of birds each year, for a yearly production of 93,500 birds. The waste is accumulated on wood shavings bedding material and is completely removed once every 5 to 10 years. The only cake out removed from the barns is from the wet areas that may occur. If it should become necessary to store litter outside, it will be protected from outside water and there will be no runoff from the stockpile.

C. APPLICATION RATES

Field 1 Section 14, T17N, R25E, Adair County, Oklahoma

Nutrient Content

According to the latest (9/01) litter test, each ton of litter spread contains:

N—62 lbs.

P205—89 lbs.

K20—48 lbs.

Soil test results (8/01):

(See the attached aerial photograph for the specific locations of each field.)

Field No.	N03	P Index	K Index
1	53 lbs.	468 lbs.	585 lbs.
2	No test		

Since the phosphorus index is above 400, no litter is to be applied on this property until another soil test shows the phosphorus index to be below 400. Use nitrogen fertilizer for increased forage production. About 150 lbs. of ammonium nitrate is needed to produce each ton of bermuda grass. The application of lime is not needed.

D. DEAD BIRD DISPOSAL:

Birds from normal death loss are composted.

Birds from catastrophic losses are disposed of in a landfill at Stilwell, Oklahoma.

E. WASTE UTILIZATION GUIDELINES:

1. All waste will be applied in accordance with all state and local laws and ordinances.
2. All waste applications will be timed to minimize pollution.

Any one of the following conditions will prohibit the surface application of litter.

- a. High velocity wind is toward a populated area.
 - b. There is a high probability of a runoff producing rainfall.
 - c. The ground is frozen.
 - d. Saturated soil conditions exist.
3. Discharge or runoff from waste application sites is prohibited.
 4. Spread litter during growing season of dominant plants.
 5. Do not apply to actively eroding areas.
 6. Do not apply on shallow soils (less than 10 inches deep), on slopes greater than 15 percent, or on stony areas.

F. BEST MANAGEMENT PRACTICES:

1. Apply litter not to exceed amounts given in this waste management plan or a revised recommendation based on new soil and litter tests.
2. For the purpose of spreading litter, soil tests need to be done only when litter is going to be spread on your property. Litter tests need to be done only before litter is to be completely removed.
3. Secure enough soil tests to adequately represent the conditions on your farm. Generally one composite soil sample is needed for each 40 acres where litter is to be applied.
4. Maintain a good growth of grass at all times. Grass should not be less than four inches tall. This reduces runoff, erosion, and nutrient loss.
5. Control weeds and brush to maintain a good stand of grass.
6. Do not apply litter within 50 to 100 feet of streams, ponds, and water wells. Buffer strips should be maintained along these areas.
7. On slopes of 8 to 15 percent, use one-half the normal prescribed rate of litter.

G. ENVIRONMENTAL STATEMENT

There are ponds and intermittent streams on this property that require special precautions when spreading litter. (See item 6 under Section F.) The steep and/or stony areas are still in timber. The soil test showing a high phosphorus index prohibits the use of litter on this property at this time.

H. ADDITIONAL INFORMATION:

1. The dominant grass is bermuda grass.
2. Mr. Masters owns additional land about 14 miles away. Hauling costs prohibits hauling litter to this property.
3. Owner should keep records of time of clean out, amount of litter produced, and who receives the litter.



SOIL, WATER & FORAGE ANALYSIS LABORATORY

Division of Agricultural Sciences and Natural Resources • Oklahoma State University
Plant and Soil Sciences • 048 Agricultural Hall • Stillwater, OK 74078

Email: soils_lab@mail.pss.okstate.edu

Website: <http://clay.agr.okstate.edu/extensio/swfal/intro.htm>

SOIL TEST REPORT

ADAIR CTY OSU EXTN
220 WEST DIVISION
COURTHOUSE
STILLWELL, OK 74960
(918) 696-2253

Name: *Clyde Masters*
Location: *Rt. 2 Box 240*
Westville, OK 74960
Lab I.D. No.: 265960
Customer Code: 1
Sample No: 5211
Received: 08/23/01
Report Date: 08/27/01

TEST RESULTS

Soil Reaction	NO ₃ -N (lbs/acre)	Test Index
pH: 5.6	Surface: 53	P: 468
Buffer Index: 6.6	Subsoil:	K: 585
Secondary nutrients	Micronutrients	
Surface SO ₄ -S (lbs/acre):	Ca (lbs/acre):	Fe (ppm):
Subsoil SO ₄ -S (lbs/acre):	Mg (lbs/acre):	Zn (ppm):
		B (ppm):

INTERPRETATIONS AND REQUIREMENTS FOR *Fescue* (YIELD GOAL = 3.00 tons/acre)

Test	Interpretation	Requirement	Recommendations and Comments
pH	Adequate	No lime required	
Nitrogen	Deficient	127 lbs/acre N	
Phosphorus	Adequate	None	
Potassium	Adequate	None	

3 ton per acre yield goal
127# actual N per acre

Excessive p & k index
Animal waste should not be
used as a fert. N fert only
Good pH level

[Signature]
Signature

Oklahoma State University, U.S. Department of Agriculture, state, and local governments cooperating. Oklahoma Cooperative Extension Service offers its programs to all eligible persons regardless of race, color, national origin, religion, sex, age or disability and is an Equal Opportunity Employer.



SOIL, WATER & FORAGE ANALYTICAL LABORATORY

Division of Agricultural Sciences and Natural Resources • Oklahoma State University
 Plant and Soil Sciences • 048 Agricultural Hall • Stillwater, OK 74078
 Email: soils_lab@mail.pss.okstate.edu
 Website: <http://clay.agr.okstate.edu/extensio/swfal/intro.htm>

SOIL TEST REPORT

DAN PARRISH
 WATER QUALITY
 OKLAHOMA DEPT OF AG
 2800 N LINCOLN BLVD
 OKLAHOMA CITY, OK 73105
 (405) 521-3864

Name:

Location:

Lab ID No.: 301116
 Customer Code: 1342
 Sample No.: 2008
 Received: 10/9/2002
 Report Date: 10/11/2002

- Soil Reaction -

pH: 6.0
 Buffer Index: 6.9

- NO₃-N (lbs/acre) -

Surface: 63
 Subsoil:

- Test Index (Mehlich 3) -

P: 1424
 K: 560

- Secondary Nutrients -

Surface SO₄-S (lbs/A):
 Subsoil SO₄-S (lbs/A):
 Ca (lbs/A):
 Mg (lbs/A):

- Micronutrients -

Fe (ppm):
 Zn (ppm):
 B (ppm):

- Additional Test-

OM (%):

INTERPRETATION AND REQUIREMENTS FOR *No Crop Provided* (YIELD GOAL =)

- Test -	- Interpretation -	- Requirement -	- Recommendations and Comments -
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RECEIVED

OCT 16 2002

Water Quality
 STATE DEPT. OF AGRICULTURE

Signature

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OKDA0010121



Frank Keating
Governor

Mary Fallin
Lt. Governor

STATE OF OKLAHOMA
DEPARTMENT OF AGRICULTURE

Dennis V. Howard
Commissioner and Secretary


H. Lynn Davis
Assistant Commissioner

October 18, 2002

Clyde Masters
Rt. 2 Box 240
Westville, OK 74965

Dear Mr. Masters:

An Oklahoma Department of Agriculture, Food, and Forestry (ODAFF), Water Quality Services poultry inspector recently collected soil sample(s) from at least one of your poultry waste land application fields. Please find enclosed a copy of the O.S.U. Laboratory test results for your soil sample(s).

Please note that the Phosphorus level (identified as P on the O.S.U. Laboratory Soil Test Report) indicates that the level is above the acceptable NRCS standard of 300. The NRCS specifies that poultry waste can not be applied to soils that have levels for phosphorus that exceed 300 and are located in Nutrient Limited Watersheds or Nutrient Threatened Groundwaters. Since the Phosphorus level in your field #1 is 1424, you cannot apply any additional poultry waste to this field(s). This requirement is based on the Oklahoma Registered Poultry Feeding Operations Act and the U.S.D.A. Natural Resources Conservation Service Standards. 

Respectfully,



D. J. Parrish, Director
ODAFF Water Quality Services

C: David Berry
Adair County NRCS
Dr. Jim Shirazi, Soil Scientist
ODAFF File

DP/da
masters

AEMS050A
REV 10/27/06ODAFF-AGRICULTURAL ENVIRONMENTAL
MANAGEMENT SERVICES
P.O. BOX 528804
OKLA. CITY, OK 73152-8804**OKLAHOMA REGISTERED POULTRY FEEDING OPERATIONS
INSPECTION CHECKLIST****RECEIVED**

APR 10 2007

Date: 3-30-07 Integrator: Cargill AG ENVIRONMENTAL MGMT SVCS
STATE DEPT. OF AGRICULTURE
Producer: Clyde Masters County: Adair
Address: Rt. 2 Box 240
City: Westville State: OK Zip: 74965
Phone Number: 479/409-7869 Type Facility: Turkey
Number of houses: 3 Total Capacity: 18,700 Number of Flocks per Year: 5
Date of Soil Test: 4-10-06 Date of Litter Test: 4-11-06

1. Watershed/Groundwater:

Watershed where facility is located: Tenkiler
Is facility located in a nutrient-vulnerable groundwater area? Yes No
Is facility located in a nutrient-limited watershed area? Yes No
Watershed/s where poultry waste was applied: Sold Litter
Is application area located in a nutrient-vulnerable groundwater area? Yes No
Is application area located in a nutrient-limited watershed area? Yes No

2. AWMP:

Is the AWMP available for Review? Yes No
Date of Animal Waste Management Plan: 2002
Is the AWMP being followed by this operation? Yes No
Waste Handling Procedures Listed: Yes No
Catastrophic Loss Procedure: Yes No
Calculations: Yes No
Nutrient Analysis: Soil: Yes No
Litter: Yes No
Recommended application rate: 3 eils Litter

3. Carcass Disposal:

Normal Mortality: 1. Composting 2. Burial
3. Rendering Frequency of Pickup
4. Incineration DEQ Permit: Yes No
Catastrophic Losses: Yes: No:
Reported to ODAFF: Yes: No:

4. Storage:

Protected from runoff? Yes No
Type of storage: Litter Shed Composter
Ground (tarped) Other

ENTERED PM

APR 12 2007

TONI REINGOLD

PAGE 1 OF 3

ORIGINAL - OFFICE

YELLOW - INSPECTOR

PINK - GROWER

ODAFF (DEC07) 003603

AEMS-01

REV 7/30/04

ODAFF-AGRICULTURAL ENVIRONMENTAL
MANAGEMENT SERVICES
P.O. BOX 528804
OKLA. CITY, OK 73152-8804

OKLAHOMA REGISTERED POULTRY FEEDING OPERATIONS
INSPECTION CHECKLIST

RECEIVED

APR 19 2006

Date: 3-31-06 Integrator: Honey Suckle AG ENVIRONMENTAL MGMT SERV'S
STATE DEPT. OF AGRICULTURE
Producer: Clyde Masters County: Adair
Address: Rt. 2 Box 240
City: Westville State: OK Zip: 74965
Phone Number: 918/723-4121 Type Facility: Turkeys
Number of houses: 3 Total Capacity: 18,200 Number of Flocks per Year 5
Date of Soil Test: sells litter Date of Litter Test: 3-31-04 5-20-05

1. Watershed/Groundwater:

Watershed where facility is located: 11110103090
Is facility located in a nutrient-vulnerable groundwater area? Yes ✓ No ✓
Is facility located in a nutrient-limited watershed area? Yes ✓ No ✓
Watershed/s where poultry waste was applied: 11110103090 & ARK
Is application area located in a nutrient-vulnerable groundwater area? Yes ✓ No ✓
Is application area located in a nutrient-limited watershed area? Yes ✓ No ✓

2. AWMP:

Is the AWMP available for Review? Yes ✓ No ✓
Date of Animal Waste Management Plan: 2002
Is the AWMP being followed by this operation? Yes ✓ No ✓
Waste Handling Procedures Listed: Yes ✓ No ✓
Catastrophic Loss Procedure: Yes ✓ No ✓
Calculations: Yes ✓ No ✓
Nutrient Analysis: Soil: Yes ✓ No ✓
Litter: Yes ✓ No ✓
Recommended application rate: sells litter

3. Carcass Disposal:

Normal Mortality: 1. Composting ✓ 2. Burial ✓
3. Rendering ✓ Frequency of Pickup ✓
4. Incineration ✓ DEQ Permit: Yes ✓ No ✓
Catastrophic Losses: Yes ✓ No ✓
Reported to ODAFF: Yes ✓ No ✓

4. Storage:

Protected from runoff? Yes ✓ No ✓
Type of storage: Litter Shed ✓ Composter ✓
Ground (tarp) ✓ Other BARN

ENTERED BY
APR 21 2006
SALLY ABBOTT

PAGE 1 OF 3

ORIGINAL - OFFICE

YELLOW - INSPECTOR

PINK - GROWER

ODAFF (DEC07) 003609

AEMS000096
Rev 07/30/04

FORM D

POULTRY FEEDING OPERATION REPORT OF POULTRY WASTE
STORED, SOLD, OR GIVEN AWAYPRODUCER'S NAME Clyde Masters DATE: 12/27/04

APPLICATION RECORDS: LITTER:

CLEANED OUT ___ CAKED OUT ☒ AMOUNT STORED ___ DATE: ___ DID NOT CLEAN OUT: ___

CLEANED OUT ___ CAKED OUT ___ AMOUNT STORED ___ DATE: ___

CLEANED OUT ___ CAKED OUT ___ AMOUNT STORED ___ DATE: ___

LITTER SOLD OR GIVEN AWAY: YES ☒ NO ___ CURRENT LITTER SAMPLE ANALYSIS AVAILABLE: YES ☒ NO

DATE REMOVED FROM BUILDINGS	HAULER REMOVING OR PERSON RECEIVING WASTE INCLUDING PERSON FOR WHOM WASTE WAS APPLIED	HAULER'S OR RECIPIENT'S ADDRESS INCLUDING PERSON FOR WHOM WASTE WAS APPLIED	WASTE REMOVED (TONS OR CUBIC YARDS)	BASED ON DRY OR AS-IS WEIGHT?	WASTE TEST RESULTS GIVEN?
<u>3-25-04</u>	<u>ALLAN MASTERS</u>	<u>703 Industrial Dr.</u> <u>Lincoln, ARK</u> <u>723</u>	<u>64 TONS</u>	<u>D</u>	<u>Y</u>

OKDA0010086